ColorFlat 9 RGB

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1. GETTING STARTED

What's In The Box?

- 1 x ColorFlat™ 9 rgb LED PAR Fixture
- 1x IEC Power Cord
- User Manual

Getting It Out Of The Box

Now that you've got The ColorFlat™ 9 rgb, you should carefully unpack the box and check the contents to ensure that all parts are present and in good condition. If anything looks as if it has been dam- aged in transit, notify the shipper immediately and keep the packing material for inspection. Again, please save the carton and all packing materials. If a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Powering Up!

All fixtures must be powered directly off a switched circuit and **cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch**.

AC Voltage Switch - Not all fixtures have a voltage select switch, so please verify that the fixture you receive is suitable for your local power supply. See the label on the fixture or refer to the fixture's specifications chart for more information. A fixture's listed current rating is its average current draw under normal conditions. Check the fixture or device carefully to make sure that if a voltage selection switch exists that it is set to the correct line voltage you will use.

Warning! ***Verify that the voltage select switch on your unit matches the line voltage applied. Damage to your fixture may result if the line voltage applied does not match the voltage indicated on the voltage selector switch. All fixtures must be connected to circuits with a suitable Ground (Earthing).***

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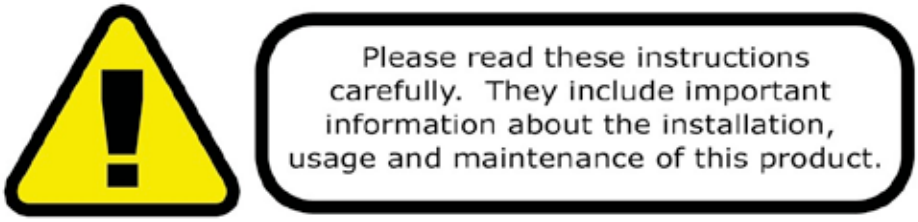
SAFETY INSTRUCTIONS


Please read these instructions carefully. They include important information about the installation, usage and maintenance of this product.

- Please keep this User Guide for future use. If you sell the unit to someone else, be sure that they also receive this User Guide.

- ALWAYS make sure that you are connecting to the proper voltage, and that the line voltage you are connecting to is not higher than that stated on the decal or rear panel of the fixture.

- This product is intended for indoor use only.

- To prevent risk of fire or shock, do not expose fixture to rain or moisture.

- Make sure there are no flammable materials close to the unit while operating.

- The unit must be installed in a location with adequate ventilation, at least 20in (50cm) from adjacent surfaces. Be sure that no ventilation slots are blocked.

- ALWAYS disconnect from the power source before servicing or replacing fuse and be sure to replace with same fuse size and type.

- ALWAYS secure fixture using a safety chain. NEVER carry the fixture by its cord. Use its carrying handles.

- DO NOT operate at ambient temperatures higher than 104°F (40°C).

- In the event of a serious operating problem, stop using the unit immediately. NEVER try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.

- NEVER connect the device to a dimmer pack.

- Make sure the power cord is never crimped or damaged.

- Never disconnect the power cord by pulling or tugging on the cord.

- Avoid direct eye exposure to the light source while it is on.

Caution! There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact WDM Lightning at 800-893-9787.

2. MEET The ColorFlat™ 9 RGB LED PAR Can

CONTROL FEATURES

- RGB color mixing via 9 x 9 Watt TriColor LEDs
  (also Available in RGB color mixing via 9 x 9 Watt TriColor LEDs)
- Variable electronic strobe
- Variable electronic dimmer
- Built-in automated programs via DMX and master/slave
- Built-in sound active programs

ADDITIONAL FEATURES

- Lightweight and Compact
- 4-Button LED control panel for easy programming
- Light source: 9 x 9-Watt LEDs, Tri-Color
  (also available in Light source: 9 x 3-Watt LEDs, Tri-Color)
- Dual bracket for flexibility in mounting
- Power outlet for fixture linking (up to 10 fixtures)

DMX Quick Reference (6-Channel Mode)

Channel	What It Does
1	Red Intensity
2	Green Intensity
3	Blue Intensity
4	Built-in Programs
5	Strobe
6	Dimmer

DMX Quick Reference (3-Channel Mode)

Channel	What It Does
1	Red Intensity
2	Green Intensity
3	Blue Intensity

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Figure 1: The ColorFlat 7Pin-Up Picture

Dual Mounting Yokes

Tri Color LEDs

Figure 2: The Rear Connections

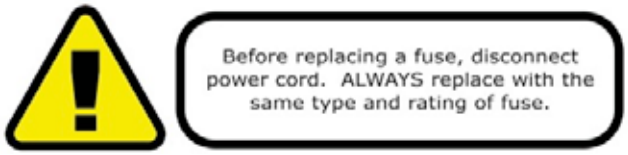
DMX In DMX Out

LED Control Panel

AC Power In/Out

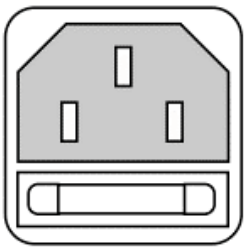
Microphone

3. SETUP



Fuse Replacement

With a flat head screwdriver, wedge the fuse holder out of its housing. Remove the damaged fuse from its holder and replace with exact same type fuse. Insert the fuse holder back in its place and reconnect power.



Connecting A Bunch of ColorFlat 7Flat LED PAR Cans

You will need a serial data link to run light shows using a DMX-512 controller or to run shows on two or more fixtures set to sync in master/slave operating mode. The combined number of channels required by all the fixtures on a serial data link determines the number of fixtures the data link can support.

Fixtures on a serial data link must be daisy chained in one single line. Also, connecting more than 32 fixtures on one serial data link without the use of a DMX optically-isolated splitter may result in deterioration of the digital DMX signal.
The maximum recommended cable-run distance is 500 meters (1640 ft). The maximum recommended number of fixtures on a serial data link is 32 fixtures.

Data/DMX Cabling

To link fixtures together you'll need data cables. You should use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.

For instance, Belden© 9841 meets the specifications for EIA RS-485 applications. Standard microphone cables will "probably" be OK, but note that they cannot transmit DMX data as reliably over long distances. In any event, the cable should have the following characteristics:

2-conductor twisted pair plus a shield
Maximum capacitance between conductors – 30 pF/ft.
Maximum capacitance between conductor & shield – 55 pF/ft.
Maximum resistance of 20 ohms / 1000 ft.
Nominal impedance 100 – 140 ohms

4. OPERATING ADJUSTMENTS

NOTE: After making any adjustment, the fixture will return to the correct mode after approximately 5 seconds.

DMX Mode

Allows the unit to be controlled by any universal DMX controller.

1.) The default mode for the fixture is DMX, which appears as Addr on the LED Readout. Use the **<ENTER>** button then the **<UP>** and **<DOWN>** buttons to

choose a channel between 1 and 512. Press **<ENTER>** again to confirm.

2.) To change between 3 and 6 channel DMX mode, select ChNd, then press **<ENTER>.** Select either 6Ch or 3Ch, then press **<ENTER>** again to confirm.

Master/Slave Mode (Auto/Sound Active/Color Preset/Custom):

Allows you to link up to 32 units together without a controller.

1.) Use standard DMX cables to daisy chain your units together via the DMX con- nector on the rear of the units. It may be necessary to use a terminator at the last fixture. For more information about terminators, see page 8.

2.) Choose a unit to function as the Master. Select MAST. The master unit must be the first unit. Finally, chain the units together using DMX cable.

Master SLNd then NASt to confirm.

3.) Select slave function by using the **<UP>/<DOWN>** keys to reach SLAV in the Master/Auto menu on the slave units, and they will react in the same as the Master.

Slave SLNd then SLAu to confirm**.**

4.) On the master fixture, use the **<UP>/<DOWN>** keys to reach SHND, which allows you to select the Master/Slave mode.

Sound active SoUn then **<ENTER>** to confirm.

Auto CoLo then Auto, then **<ENTER>** to

Color CoLo then CoL 1 – CoL 7, **<ENTER>**.

To set a custom color in Master/Slave / Standalone Mode:
Using this function, you can select any color by adjusting the Red, Green and Blue values
from 0-255. You can also use this function to adjust the overall white balance of the fix- ture while running in any mode.

Please note that modifying the values in this step will affect ALL modes, therefore we recommend resetting all levels to their highest value (255) after using this mode.

1.) Select NAnu from the control panel, then hit **<ENTER>**.

2.) Choose rEd, GrEE or bLuE, then hit **<ENTER>** to confirm.

3.) Using the **<UP>/<DOWN>** keys, select the color you wish to display by varying Red/Green/Blue intensity between 0 and 255, then hit **<ENTER>** to confirm each color choice.

4.) Select Color preset mode as instructed above, then select CoL 7. then **<ENTER>** to confirm.

To Show the Fixture Running Hours:

1.) Select FhrS from the control panel, then hit **<ENTER>** to confirm.

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Troubleshooting

Symptom	Solution
Fixture Auto-Shut Off	Check the fan in the fixture. If it is stopped or moving slower than normal, the unit may have shut itself off due to high heat. This is to protect the fixture from overheating. Clear the fan of obstructions, or return the unit for service.
Beam is Dim	Check optical system and clean excess dust/grime. Also ensure that the 220V/110V switch is in the correct position, if applicable.
No Light Output	Check to ensure fixture is operating under correct mode, IE sound active/auto/DMX/Etc., if applicable. Contact service for more information.
Chase Speed Too Fast/Slow	Check to ensure proper setup of speed adjustment.
No Power	Check fuse, AC cord and circuit for malfunction.
Blown Fuse	Check AC cord and circuit for damage, verify that moving parts are not restricted and that unit's ventilation is not obstructed
Slow Movement	Verify that 220V/110V switch is in the correct position, if applicable. Also check that speed channels are set appropriately.
No Response to Audio	Verify that the fixture is in "Sound Active" mode. Adjust Audio Sensitivity, If Applicable.
Fixture Not Responding / Responding Erratically	Make sure all connectors are seated properly and securely. Use Only DMX Cables. Install a Terminator. Check all cables for defects. Reset fixture(s).
Intermittent Lamp	Check lamp for properly installation. Re-lamp, lamp may have reached end of life.
Remote Doesn't Work	Verify remote control cable is installed properly and securely. Verify remote is correct type (CA-9 or other as applicable.)
Fixture Moving On Its Own	Verify proper mode of operation. Is the fixture in "Auto" mode?

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Tech Specs!

Weight & Dimensions	
Length	12 inches
Width	6 inches
Height	12 inches
Weight	6.6 lbs
Power	
Operating Voltage	90-230VAC, 50-60 Hertz
Fuse	3A 250V
Power Consumption	90 watt (65 watt for the 3 watt LED Fixture)
Light Source	
LED	9 x 9 Watt TriColor LED's 60K hrs. 9 x 3 Watt TriColor LED's 60K hrs.
Optical	
Beam Angle	25 degrees
Thermal	
Max. Operating Temp.	104 degrees F (40 degrees C) ambient
Control	
Protocol	USITT DMX-512
DMX Channels	4 or 6 (User Selectable)
Input	3-pin XLR Male
Output	3-pin XLR Female
Other Operating Modes	Standalone, Master/Slave, Sound Active, Color Preset, Standalone color mixing